## SECTION 5 - 510(k) Summary

## ELITech Clinical Systems CHOLESTEROL HDL SL 2G

AUG 3 1 2011

Introduction

According to the requirements of 21 CFR 807.92, the following information provides sufficient detail to understand the basis for a determination of substantial equivalence.

The assigned 510(k) number is: K103747

Submitter

SEPPIM S.A.S.

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Contact

Valérie GOURDON (Email: v.gourdon@elitechgroup.com)

**Date of Preparation** 

November, 23rd, 2010

#### Device names

REAGENT:

Trade/proprietary Name:

Device Class

Classification name

Product code

ELITech Clinical Systems CHOLESTEROL HDL SL 2G

Common or Usual Name: High Density Lipoprotein (HDL) Cholesterol, "CHOLESTEROL HDL SL 2G"

Class I,

Lipoprotein test system (Sec.862.1475)

LBS - LDL & VLDL Precipitation, Cholesterol Via Esterase-Oxidase,

Predicate device

ABX PENTRA HDL Direct CP (K060854)

**Device description** 

The device for this submission is available as kit only. It consists of 2

reagents, "R1" and "R2".

Reagent R1 contains: Good's buffer, Cholesterol oxidase (CO bacterial), Peroxidase (horseradish), Ascorbate oxidase (bacterial), N,N-bis(4-

sulphobutyl)-m-toluidine-disodium (DSBmT), Accelerator.

Reagent R2 contains: Good's buffer, Cholesterol esterase (CHE bacterial),

4-Amino-Antipyrine (4-AA), detergent.

Intended Use

ELITech Clinical Systems CHOLESTEROL HDL SL 2G is intended for use with ELITech Clinical Systems CHOLESTEROL HDL 2G CALIBRATOR and ELITech Clinical Systems ELITROL I and ELITROL II on ELITech Clinical Systems Selectra analyzers for the quantitative in vitro diagnostic determination of High Density Lipoprotein (HDL) Cholesterol in human serum and plasma. It is not intended for use in Point of Care settings.

Indication(s) for Use

ELITech Clinical Systems CHOLESTEROL HDL SL 2G is intended to measure High Density Lipoprotein (HDL) Cholesterol in human serum and plasma. Lipoprotein measurements are used in the diagnosis and treatment of lipid disorders (such as diabetes mellitus), atherosclerosis, and various

liver and renal diseases.

The second secon	ELITech Clinical Systems Device	Predicate device			
-	CHOLESTEROL HDL SL 2G	(ABX PENTRA HDL Direct CP, K060854)			
Intended use	Intended for use with ELITech Clinical Systems CHOLESTEROL HDL 2G CALIBRATOR and ELITech Clinical Systems ELITROL I and ELITROL II on ELITech Clinical Systems Selectra analyzers for the quantitative <i>in vitro</i> diagnostic determination of High Density Lipoprotein (HDL) Cholesterol in human serum and plasma. It is not intended for use in Point of Care settings.				
Indication(s) for Use	Intended to measure High Density Lipoprotein (HDL) Cholesterol in human serum and plasma. Lipoprotein measurements are used in the diagnosis and treatment of lipid disorders (such as diabetes mellitus), atherosclerosis, and various liver and renal diseases.	in Lipoprotein (HDL) Cholesterol in human otein serum and plasma. Lipoprotein the measurements are used in the diagnosis lipid and treatment of lipid disorders (such as itus), diabetes mellitus), atherosclerosis, and			
Assay protocol	Enzymatic colorimetric test with accelerator selective detergent	Enzymatic colorimetric test based on accelerator Selective Detergent (without the need for any off-line pretreatment or centrifugation steps)			
Composition	Reagent R1: Good's buffer ,pH 6.0; Cholesterol oxidase < 1000 U/L; Peroxidase < 1300 ppg U/L; Ascorbate oxidase < 3000 U/L; N,N-bis(4-sulphobutyl)-m-toluidine- disodium (DSBmT) < 1 mmol/L; Accelerator < 1 mmol/L Preservative < 0.06 %	Reagent R1: Good's buffer Cholesterol oxidase < 1000 U/L; Peroxidase < 1300 ppg U/L; N,N-bis(4-sulphobutyl)-m-toluidine-disodium (DSBmT) < 1 mmol/L; Accelerator < 1 mmol/L Preservative < 0.06 %			
•	Reagent R2:  Good's buffer, pH 6.0; Cholesterol esterase < 1500 U/L; 4-Amino-Antipyrine < 1 mmol/L; Detergent < 2% Preservative < 0.06 %	Reagent R2:  Good's buffer Cholesterol esterase < 1500 U/L; 4-Amino-Antipyrine < 1 mmol/L; Detergent < 2% Restrainer < 0.15 % Preservative < 0.06 % Ascorbic acid oxidase < 3000 U/L			
Appearance of reagent	Liquid form, ready to use	Same			
Sample type	Serum	Serum			
	Plasma in lithium heparin	Plasma in lithium heparin			
Reagent storage	Store at 2-8 °C and protected from	Reagents, in unopened cassette, are			

	ELITech Clinical Systems Device	<u>Predicate device</u>	
	CHOLESTEROL HDL SL 2G light. The reagents are stable until the expiry date stated on the label.	(ABX PENTRA HDL Direct CP, K060854) stable up to expiry date on the label if stored at 2-8 °C.	
Expected values	According to NCEP , classification according to the risk of developping coronary heart disease	According to NCEP , classification according to the risk of developping coronary heart disease	
	High : < 40 mg/dL	High : < 40 mg/dL	
	Low : ≥ 60 mg/dL	Low : ≥ 60 mg/dL	
Instrument	SELECTRA JUNIOR	ABX PENTRA 400	
Measuring range	5 to 105 mg/dL	5.4 to 151.9 mg/dL	
Limit of detection (LoD)	0.7 mg/dL		
Limit of quantification (LoQ)	5.0 mg/dL	1.16 mg/dL	
Precision	Within run	Within run	
·	Level 31 mg/dL CV=1.4% Level 56 mg/dL CV=0.7% Level 87 mg/dL CV=1.4%  Total Level 31 mg/dL CV=3.0%	Level 35.82 mg/dL CV=1.29% Level 81.72 mg/dL CV=0.79% Level 27.94 mg/dL CV=1.32% Level 48.59 mg/dL CV=1.91% Level 97.39 mg/dL CV=0.62% Total Level 35.85 mg/dL CV=2.88%	
	Level 56 mg/dL CV=2.8% Level 87 mg/dL CV=3.3%	Level 80.35 mg/dL CV=3.06% Level 47.07 mg/dL CV=3.52% Level 80.16 mg/dL CV=2.69%	
Method comparison	y=1.09x - 2.5 mg/dL	y=0.91x + 1.98 mg/dL	
	$r^2 = 0.972$	r <sup>2</sup> = 0.9768	
<u></u>	range: 5 to 105 mg/dL	range: 5.4 to 151.9 mg/dL	
Limitations	No significant interference for the following components: Unconjugated bilirubin (up to 30	Hemoglobin: No significant influence is observed up to 479 mg/dL.	
	mg/dL) Conjugated bilirubin (up to 29.5	<b>Triglycerides:</b> No significant influence is observed up to 612.5 mg/dL.	
	mg/dL) Hemoglobin (up to 500 mg/dL)	<b>Total bilirubin:</b> No significant influence is observed up to 11.7 mg/dL.	
	Turbidity: Negative bias from 439 mg/dL triglycerides equivalent.	<b>Direct bilirubin:</b> No significant influence is observed up to 28.1 mg/dL.	
On board stability	refrigerated area : 28 days	refrigerated area: 31 days	
Calibrator	Recommended calibration material (not included):	Recommended calibration material (not included):	
	ELITech Clinical Systems Cholesterol HDL 2G Calibrator	ABX Pentra HDL Cal	

## SEPPIM S.A.S. Zone industrielle 61500 SEES France

•	ELITech Clinical Systems Device	Predicate device
12	CHOLESTEROL HDL SL 2G	(ABX PENTRA HDL Direct CP, K060854)
Controls	Recommended quality control material (not included):	Recommended quality control material (not included):
	ELITech Clinical Systems Elitrol I (Normal control)	ABX Pentra N Control
	ELITech Clinical Systems Elitrol II (Pathologic control)	(Normal control)  ABX Pentra P Control (Pathologic control)

# SECTION 5 - 510(k) Summary - ELITech Clinical Systems CHOLESTEROL HDL 2G CALIBRATOR

Introduction

According to the requirements of 21 CFR 807.92, the following information provides sufficient detail to understand the basis for a determination of

substantial equivalence.

The assigned 510(k) number is: K103747

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Valérie GOURDON (Email: v.gourdon@elitechgroup.com)

Date of Preparation

November, 23<sup>rd</sup>, 2010

#### **Device names**

Trade/proprietary Name Common or Usual Name

ELITech Clinical Systems CHOLESTEROL HDL 2G CALIBRATOR

Calibrator "CHOLESTEROL HDL 2G CALIBRATOR"

Device Class

Class II

Classification name Product code

Calibrator (Sec.862.1150)

JIS- Calibrator, Primary

Predicate device

Ultra N-Geneous HDL Calibrator from Genzyme (K021316)

**Device description** 

ELITech Clinical Systems CHOLESTEROL HDL 2G CALIBRATOR is a lyophilized calibrator based on human serum containing lipoprotein from the various lipoprotein classes including high density lipoproteins and sodium azide as preservative.

CHOLESTEROL HDL 2G CALIBRATOR is prepared exclusively from the blood of donors tested individually and found to be negative for HbsAg and to antibodies to HCV and HIV according to FDA-approved methods.

Intended Use

ELITech Clinical Systems CHOLESTEROL HDL 2G CALIBRATOR is a calibrator for *in vitro* diagnostic use in the calibration of quantitative ELITech Clinical Systems CHOLESTEROL HDL SL 2G on ELITech Clinical Systems Selectra analyzers.

(CHOLESTEROL HDL 2G CALIBRATOR)	Predicate device (Genzyme Ultra N-Geneous CHOLESTEROL HDL Calibrator)
For in vitro diagnostic use in the calibration of quantitative ELITech Clinical Systems CHOLESTEROL HDL SL 2G on ELITech Clinical Systems Selectra analyzers.	For the calibration of Ultra N-Genous HDL Cholesterol
Lyophilized calibrator based on human serum on human serum containing lipoprotein from the various lipoprotein classes including high density lipoproteins. This calibrator contains sodium azide as preservative.	Lyophilized calibrator based on human serum on human serum containing lipoprotein from the various lipoprotein classes including high density lipoproteins. This calibrator contains sodium azide as preservative.
Single level	Single level
Carefully open the vial, avoiding the loss of lyophilizate, and pipette in exactly 1 mL of distilled/deionized water. Carefully close the vial and dissolve the content by successive swirling. Wait for around 20 minutes until the complete dissolution and homogenize again. Do not shake strongly to avoid formation of foam.	Carefully open the vial, avoiding the loss of lyophilizate, and reconstitute with 1 mL of deionized water. Close the vial and let stand for 20 minutes. Dissolve the contents of the vial by swirling gently to avoid the formation of foam. Do not shake.
Lyophilized: To store at 2-8 °C and protected from light until the expiry date  After reconstitution, the stabilities are: - 14 days between 2 - 8 °C 4 weeks at less than - 80 °C (when frozen once)	Lyophilized: To store at 2-8 °C and protected from light until the expiry date  After reconstitution, the stabilities are: - 14 days between 2 - 8 °C 4 weeks between -70 °C (when frozen once)
	For in vitro diagnostic use in the calibration of quantitative ELITech Clinical Systems CHOLESTEROL HDL SL 2G on ELITech Clinical Systems Selectra analyzers.  Lyophilized calibrator based on human serum on human serum containing lipoprotein from the various lipoprotein classes including high density lipoproteins. This calibrator contains sodium azide as preservative.  Single level  Carefully open the vial, avoiding the loss of lyophilizate, and pipette in exactly 1 mL of distilled/deionized water. Carefully close the vial and dissolve the content by successive swirling. Wait for around 20 minutes until the complete dissolution and homogenize again. Do not shake strongly to avoid formation of foam.  Lyophilized: To store at 2-8 °C and protected from light until the expiry date  After reconstitution, the stabilities are: - 14 days between 2 - 8 °C 4 weeks at less than - 80 °C (when

#### Conclusion

## SECTION 5 - 510(k) Summary

## ELITech Clinical Systems CHOLESTEROL LDL SL 2G

#### Introduction

According to the requirements of 21 CFR 807.92, the following information provides sufficient detail to understand the basis for a determination of substantial equivalence.

The assigned 510(k) number is: K103747

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**Date of Preparation** 

November, 23rd, 2010

#### **Device names**

#### REAGENT:

Trade/proprietary Name: ELITech Clinical Systems CHOLESTEROL LDL SL 2G

Common or Usual Name: Low Density Lipoprotein (LDL) Cholesterol, "CHOLESTEROL HDL SL 2G"

Device Class

Class I

Classification name

Lipoprotein test system (Sec.862.1475)

Product code

LBS – LDL & VLDL Precipitation, Cholesterol Via Esterase

#### Predicate device

ABX PENTRA LDL Direct CP (K060854)

#### **Device description**

The device for this submission is available as kit only. It consists of 2 reagents, "R1" and "R2".

Reagent R1 contains: MES buffer, Detergent 1, Cholesterol esterase (CHE bacterial), Cholesterol oxidase (CO bacterial), Peroxidase (horseradish), 4-

Amino-Antipyrine (4-AA), Ascorbate oxidase (vegetal).

Reagent R2 contains: MES buffer, Detergent 2, N,N-bis(4-sulphobutyl)-m-

toluidine-disodium (DSBmT).

#### Intended Use

ELITech Clinical Systems CHOLESTEROL LDL SL 2G is intended for use with ELITech Clinical Systems CHOLESTEROL LDL 2G CALIBRATOR and ELITECH Clinical Systems ELITROL I and ELITROL II for the quantitative in vitro diagnostic determination of Low Density Lipoprotein (LDL) Cholesterol in human serum and plasma on ELITech Clinical Systems Selectra analyzers. It is not intended for use in Point of Care settings.

#### Indication(s) for Use

ELITech Clinical Systems CHOLESTEROL LDL SL 2G is intended to measure Low Density Lipoprotein (LDL) Cholesterol in human serum and plasma. Lipoprotein measurements are used in the diagnosis and treatment of lipid disorders (such as diabetes mellitus), atherosclerosis, and various liver and renal diseases.

	ELITech Clinical Systems Device	Predicate device	
Intended use	CHOLESTEROL LDL SL 2G  Intended for use with ELITech Clinical Systems CHOLESTEROL LDL 2G CALIBRATOR and ELITech Clinical Systems ELITROL I and ELITROL II for the quantitative in vitro diagnostic determination of Low Density Lipoprotein (LDL) Cholesterol in human serum and plasma on ELITech Clinical Systems Selectra analyzers. It is not intended for use	(ABX PENTRA LDL DIRECT CP)  For quantitative in vitro determination of Low Density Lipoprotein Cholesterol (LDL-C) in serum or plasma by colorimetry.	
Indication(s) for Use	in Point of Care settings.  Intended to measure Low Density Lipoprotein (LDL) Cholesterol in human serum and plasma. Lipoprotein measurements are used in the diagnosis and treatment of lipid disorders (such as diabetes mellitus), atherosclerosis, and various liver and renal diseases.	Intended to measure Low Density Lipoprotein (LDL) Cholesterol in human serum and plasma. Lipoprotein measurements are used in the diagnosis and treatment of lipid disorders (such as diabetes mellitus), atherosclerosis, and various liver and renal diseases.	
Assay protocol	Enzymatic colorimetric test with selective detergent	Enzymatic colorimetric test with selective detergent	
Composition	Reagent R1:  MES buffer ,pH 6.3;  Detergent 1 < 1.0 %,  Cholesterol esterase < 1500 U/L;  Cholesterol oxidase < 1500 U/L;  Peroxidase < 1300 ppg U/L;  4-Amino-Antipyrine < 0.1 %,  Ascorbate oxidase Preservative  Reagent R2:  MES buffer, pH 6.3;	Reagent R1:  MES buffer ,pH 6.3; Detergent 1 < 1.0 %, Cholesterol esterase < 1500 U/L, Cholesterol oxidase < 1500 U/L; Peroxidase < 1300 ppg U/L; 4-Amino-Antipyrine < 0.1 %, Ascorbate oxidase < 3000 U/L Preservative  Reagent R2: MES buffer, pH 6.3;	
	Detergent 2 < 1.0 %, N,N-bis(4-sulphobutyl)- <i>m</i> - toluidine-disodium < 1 mmol/L Preservative	Detergent 2 < 1.0 %, N,N-bis(4-sulphobutyl)-m- toluidine-disodium < 1 mmol/L Preservative	
Appearance of reagent	Liquid form, ready to use	Same	
Sample type	Serum Serum Plasma in lithium heparin Plasma in lithium he		
Reagent storage	Store at 2-8 °C and protected from light. The reagent is stable until the expiry date stated on the label. Reagents, in unopen are stable up to expiry label if stored at 2-8 °C		
Expected values	According to NCEP, classification according to the risk of developing coronary heart disease:  Optimal: < 100 mg/dL  Near or above optimal: 100-129 mg/dL  Borderline High: 130-159 mg/dL  High: 160-189 mg/dL  Very high: ≥ 190 mg/dL		

•	ELITech Clinical Systems Device CHOLESTEROL LDL SL 2G	Predicate device (ABX PENTRA LDL DIRECT CP)		
Instrument	Vital Scientific SELECTRA JUNIOR	ABX PENTRA 400		
Measuring range	15 to 380 mg/dL	1.35 to 369.39 mg/dL		
Limit of Detection (LoD)	0.3 mg/dL	1.55 mg/dL		
Limit of Quantification (LoQ)	10.0 mg/dL	1.00 mg/dE		
Precision	Within run	Within run		
	Level 108 mg/dL CV=1.4%	Level 61.26 mg/dL CV=1.01%		
	Level 122 mg/dL CV=1.3%	Level 75.08 mg/dL CV=2.82%		
	Level 162 mg/dL CV=2.0%	Level 111.26 mg/dL CV=0.91%		
		Level 141.45 mg/dL CV=1.00%		
	Total	Level 191.16 mg/dL CV=0.63%		
	Level 108 mg/dL CV=2.6%			
	Level 122 mg/dL CV=2.7%	Total		
	Level 162 mg/dL CV=4.0%	Level 60.64 mg/dL CV=5.59%		
		Level 74.27 mg/dL CV=6.39%		
		Level 156.58 mg/dL CV=3.94%		
		Level 191.62 mg/dL CV=4.04%		
Method comparison	y= 0.999 x - 0.5 mg/dL r <sup>2</sup> = 0.993	y=0.96x - 0.21 mg/dL r <sup>2</sup> = 0.9963		
	range: 16-378 mg/dL	range: 1.35 to 369.39 mg/dL		
Calibration Frequency	Hemoglobin: No significant interference up to 500 mg/dL.  Turbidity: No significant interference up to 614 mg/dL triglycerides equivalent.  Unconjugated bilirubin: No significant interference up to 30 mg/dL.  Conjugated bilirubin: No significant interference up to 29.5 mg/dL.	Hemoglobin: No significant influence is observed up to 460 mg/dL.  Triglycerides: No significant influence is observed up to 613 mg/dL.  Total bilirubin: No significant influence is observed up to 8.19 mg/dL.  Direct bilirubin: No significant influence is observed up to 5.63 mg/dL.		
Calibration Frequency	28 days	14 days		
On board stability	refrigerated area : 28 days	refrigerated area: 97 days		
Calibrator	Recommended calibration material (not included):	Recommended calibration material (not included):		
	ELITech Clinical Systems Cholesterol LDL 2G Calibrator	ABX Pentra LDL Cal		
Controls	Recommended quality control material (not included):	Recommended quality control material (not included):		
	ELITech Clinical Systems Elitrol I	ABX Pentra N Control		
	(Normal control)	(Normal control)		
	ELITech Clinical Systems Elitrol II (Pathologic control)	ABX Pentra P Control (Pathologic control)		

#### Conclusion

## SECTION 5 - 510(k) Summary -

## ELITech Clinical Systems CHOLESTEROL LDL 2G CALIBRATOR

Introduction

According to the requirements of 21 CFR 807.92, the following information provides sufficient detail to understand the basis for a determination of

substantial equivalence.

The assigned 510(k) number is: K103747

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**Date of Preparation** 

November, 23<sup>rd</sup>, 2010

Trade/proprietary Name: ELITech Clinical Systems CHOLESTEROL LDL 2G CALIBRATOR

Common or Usual Name: Calibrator "CHOLESTEROL LDL 2G CALIBRATOR"

Device Class

Class II

Classification name Product code

Calibrator (Sec.862,1150) JIS- Calibrator, Primary

Predicate device

N-geneous LDL Calibrator from Genzyme (K971573)

**Device description** 

ELITech Clinical Systems CHOLESTEROL LDL 2GCALIBRATOR is a lyophilized calibrator based on human serum containing lipoprotein from the various lipoprotein classes including low density lipoproteins and sodium

azide as preservative.

CHOLESTEROL LDL 2G CALIBRATOR is prepared from plasma donor units tested individually by FDA - approved methods and found to be negative for HbsAg, anti-HCV antibody and anti-HIV1&2 antibodies.

Intended Use

ELITech Clinical Systems CHOLESTEROL LDL 2G CALIBRATOR intended

for use with ELITech Clinical Systems CHOLESTEROL LDL 2G

CALIBRATOR and ELITech Clinical Systems ELITROL I and ELITROL II for the quantitative in vitro diagnostic determination of Low Density Lipoprotein (LDL) Cholesterol in human serum and plasma on ELITech Clinical Systems Selectra analyzers. It is not intended for use in Point of Care settings.

ELITech Clinical Systems Device (CHOLESTEROL LDL 2G CALIBRATOR)	Predicate device (Genzyme N-geneous LDL Cholesterol Calibrator)
calibration of quantitative ELITech Clinical Systems CHOLESTEROL LDL SL 2G on ELITech Clinical Systems Selectra analyzers.	For the calibration of Ultra N-Genous LDL Cholesterol assay in serum or plasma.
Lyophilized calibrator based on human serum on human serum containing lipoprotein from the various lipoprotein classes including low density lipoproteins. This calibrator contains sodium azide as preservative.  Lyophilized calibrato human serum on human serum on human serum on containing lipoprotein various lipoprotein including low density. This calibrator containing azide as preservative.	
Single level	Single level
Carefully open the vial, avoiding the loss of lyophilizate, and pipette in exactly 1 mL of distilled/deionized water. Carefully close the vial and dissolve the content by successive swirling. Wait for around 5 minutes until the complete dissolution and homogenize again. Do not shake strongly to avoid formation of foam.	Reconstitute by adding 1 mL of distilled or deionized water. Close the vial and let stand for 5 minutes. Dissolve the contents of the vial by swirling gently to avoid the formation of foam. Do not shake.
Lyophilized: To store at 2-8 °C and protected from light until the expiry date	Lyophilized: To store at 2-8 °C and protected from light until the expiry date
After reconstitution, the stabilities are: - 14 days between 2 - 8 °C 4 weeks at less than -80 °C (frozen only once)	After reconstitution, the stabilities are: - 2 weeks at 2 - 8 °C the reconstituted calibrator may be aliquoted and stored at -80 °C.
	(CHOLESTEROL LDL 2G CALIBRATOR)  For in vitro diagnostic use in the calibration of quantitative ELITech Clinical Systems CHOLESTEROL LDL SL 2G on ELITech Clinical Systems Selectra analyzers.  Lyophilized calibrator based on human serum on human serum containing lipoprotein from the various lipoprotein classes including low density lipoproteins. This calibrator contains sodium azide as preservative.  Single level  Carefully open the vial, avoiding the loss of lyophilizate, and pipette in exactly 1 mL of distilled/deionized water. Carefully close the vial and dissolve the content by successive swirling. Wait for around 5 minutes until the complete dissolution and homogenize again. Do not shake strongly to avoid formation of foam.  Lyophilized: To store at 2-8 °C and protected from light until the expiry date  After reconstitution, the stabilities are:  - 14 days between 2 - 8 °C.  - 4 weeks at less than -80 °C

#### Conclusion

## SECTION 5 - 510(k) Summary -

## **ELITech Clinical Systems ELITROL I and ELITROL II**

Introduction

According to the requirements of 21 CFR 807.92, the following information provides sufficient detail to understand the basis for a

determination of substantial equivalence.

The assigned 510(k) number is: K103747

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Date of Preparation

November, 23<sup>rd</sup>, 2010

#### Device names

CONTROLS:

Trade/proprietary Name:

Common or Usual Name:

Device Class

Classification name

ELITECH Clinical Systems ELITROL i and ELITROL II

Multi-analyte controls – all kinds, "ELITROL II"

Class

ation hame Qua

Quality control material (assayed and unassayed). (21 CFR

862.1660)

Product code

JJX- Multi-analyte controls - all kinds

Predicate device

Roche Diagnostics Precinorm U (K041227)

Roche Diagnostics Precipath U (K041227)

**Device description** 

ELITECH Clinical Systems ELITROL I and ELITROL II are two level quality control products consisting of lyophilized human serum containing constituents

at desired levels.

Elitrol I and Elitrol II are prepared exclusively from the blood of donors tested individually and found to be negative for HbsAg and to antibodies to HCV and HIV according to FDA-approved methods or methods in compliance with the

European Directive 98/79/EC, Annex II, List A.

Intended Use

ELITech Clinical Systems ELITROL I & ELITROL II are multi-parametric control sera for in vitro diagnostic use in quality control of quantitative ELITech Clinical Systems methods on ELITech Clinical Systems Selectra

analyzers.

	ELST- AL OBASA DOMANA DAVIDA	D # 1 D **
	ELITech Clinical Systems Device	Predicate Device
	ELITROL I / ELITROL II	Roche Precinorm U / Precipath U
		·
Intended use	ELITech Clinical Systems ELITROL	For in vitro diagnostic use in quality
	I & ELITROL II are multi-parametric	control by monitoring accuracy and
	control sera for in vitro diagnostic	precision for the quantitative
	use in quality control of quantitative	methods as specified in the value
	ELITech Clinical Systems methods	sheet
	on ELITech Clinical Systems	Silect
	Selectra analyzers.	
Format		Lucia tellica di tanca di cara di la
Format	Lyophilized human sera with	Lyophilized human sera with
	constituents added as required to	constituents added as required to
	obtain desired components levels	obtain desired components levels
Levels	Two levels	Two levels
		, , , , , , , , , , , , , , , , , , , ,
Handling	Carefully open the vial, avoiding the	Carefully open the bottle, avoiding
	loss of lyophilate, and pipette in	the loss of lyophilate, and pipette in
	exactly 5 mL of distilled/deionized	exactly 5 mL of distilled/deionized
	water. Carefully close the vial and	water. Carefully close the bottle and
	dissolve the contents completely by	dissolve the contents completely by
	occasional gentle swirling within 30	occasional gentle swirling within 30
	minutes avoiding the formation of	minutes. Avoid the formation of
	foam.	foam.
Stability	Lyophilized:	Lyophilized:
	To store at 2-8°C and protected	Stable at 2-8°C up to expiration
	from light until the expiry date.	date.
	i non light dritt the expiry date.	date.
	After reconstitution, the stabilities	After reconstitution, the stabilities*
	are:	are:
	- 12 hours between 15-25 °C.	- 12 hours at 15-25 °C.
	- 5 days between 2-8 °C.	- 5 days at 2-8 °C.
	- 4 weeks between -25 and -15 °C	- 4 weeks at (-25)-(-15) °C (when
	(when frozen once)	frozen once)
	(W.IGH HOZEH GHGG)	nozon once)
		*Exception for bilirubin total & direct
		as noted in package insert
		and the state of t
	l	<u> </u>

## Conclusion







ELITech SEPPIM S.A.S. c/o Debra K Hutson 21720 23<sup>rd</sup> Dr SE, Suite 150 Food and Drug Administration 10903 New Hampshire Avenue Silver Spring, MD 20993

MJG 3 1 2011

Re: k103747

Bothell, WA 98021

Trade/Device Name:

ELITech Clinical Systems CHOLESTEROL HDL SL 2G,

ELITech Clinical Systems CHOLESTEROL HDL 2G CALIBRATOR,

ELITech Clinical Systems CHOLESTEROL LDL SL 2G,

. ELITech Clinical Systems CHOLESTEROL LDL 2G CALIBRATOR, and

ELITech Clinical Systems ELITROL I and ELITROL II

Regulation Number: 21 CFR 862.1475

Regulation Name: LDL & VLDL Precipitation, Cholesterol Via Esterase-Oxidase, HDL

Regulatory Class: Class I, meets limitations per 21 CFR 862.9(c)(4)

Product Codes: LBS, JIT, JJY, MRR

Dated: August 25, 2011 Received: August 30, 2011

Dear Ms. Hutson:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into class II (Special Controls), it may be subject to such additional controls. Existing major regulations affecting your device can be found in Title 21, Code of Federal Regulations (CFR), Parts 800 to 895. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Parts 801 and 809); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); and good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820). This letter

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of *In Vitro* Diagnostic Device. Evaluation and Safety at (301) 796-5450. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding postmarket surveillance, please contact CDRH's Office of Surveillance and Biometric's (OSB's) Division of Postmarket Surveillance at (301) 796-5760. For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <a href="http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm">http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm</a> for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-5680 or at its Internet address <a href="http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm">http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm</a>.

Sincerely yours,

Courtney H. Lias, Ph.D.

Director

Division of Chemistry and Toxicology

Office of In Vitro Diagnostic Device

Evaluation and Safety

Center for Devices and Radiological Health

# **Indications for Use Form**

510(k) Number (	(if known): _ K103747		
Device Name:	ELITech Clinical Systems CHOLESTEROL HDL SL 2G ELITech Clinical Systems CHOLESTEROL HDL 2G CALIBRATOR		
Indications for U	se:		
Reagent:			
Clinical System ELITROL I and quantitative in	al Systems CHOLESTEROL HDL SL 2G is intended for use with ELITech is CHOLESTEROL HDL 2G CALIBRATOR and ELITech Clinical Systems d ELITROL II on ELITech Clinical Systems Selectra analyzers for the vitro diagnostic determination of High Density Lipoprotein (HDL) human serum and plasma. It is not intended for use in Point of Care		
Lipoprotein measurements are used in the diagnosis and treatment of lipid disorders (such as diabetes mellitus), atherosclerosis, and various liver and renal diseases.			
<u>Calibrator</u>			
<i>vitro</i> diagnosti	al Systems CHOLESTEROL HDL 2G CALIBRATOR is a calibrator for in cuse in the calibration of quantitative ELITech Clinical Systems DL HDL SL 2G on the ELITech Clinical Systems Selectra analyzers.		
Prescription Us (Part 21 CFR 8			
(PLEASE DO	O NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE OF NEEDED)		
Со	ncurrence of CDRH, Office of In Vitro Diagnostic Devices (OIVD)		
ate	Chel		
Division Sign-Of Office of In Vitro Evaluation and S	Diagnostic Device		
510(k) K \	3747		

## **Indications for Use Form**

510(k) Number (it	f known): _K1037	47	·
Device Name:			OLESTEROL LDL SL 2G OLESTEROL LDL 2G CALIBRATOR
Indications for Us	e:		
Reagent:			
Clinical Systems ELITROL I and Density Lipoprot	CHOLESTERO ELITROL II for t tein (LDL) Chole	L LDL 2G CA the quantitativ sterol in huma	OL SL 2G is intended for use with ELITech LIBRATOR and ELITech Clinical Systems re in vitro diagnostic determination of Low an serum and plasma on ELITech Clinical for use in Point of Care settings.
Lipoprotein mea (such as diabete	isurements are es mellitus), athe	used in the c rosclerosis, a	liagnosis and treatment of lipid disorders nd various liver and renal diseases.
Calibrator:	L Systoms CHOL	ESTEDOL 11	DI 20 CALIBRATOR SA A ARISHMANA COM
vitro diagnostic	use in the c	alibration of	DL 2G CALIBRATOR is a calibrator for <i>in</i> quantitative ELITech Clinical Systems cal Systems Selectra Analyzers.
Prescription Use (Part 21 CFR 80		AND/OR	Over-The-Counter Use(21 CFR 801 Subpart C)
(PLEASE DO	NOT WRITE BEI	OW THIS LIN	VE-CONTINUE ON ANOTHER PAGE OF ED)
Con	currence of CDRF	l, Office of In V	Vitro Diagnostic Devices (OIVD)
Division Sign-Off	Justo		,
_	Diagnostic Device	•	
510(k) K	03747		

## **Indications for Use Form**

510(k) Number (if known): _K103747			
Device Name: ELITech Clinical Systems ELITROL I and ELITROL II			
Indications for Use:			
ELITech Clinical Systems ELITROL I & ELITROL II are multi-parametric control sera for in vitro diagnostic use in quality control of quantitative ELITech Clinical Systems methods on ELITech Clinical Systems Selectra analyzers.			
Prescription Use X Over-The-Counter Use (21 CFR 801 Subpart C)			
(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE OF NEEDED)			
Concurrence of CDRH, Office of In Vitro Diagnostic Devices (OIVD)			
Oute Chile			
Division Sign-Off Office of In Vitro Diagnostic Device Evaluation and Safety			
510(k) \$ 103747.			